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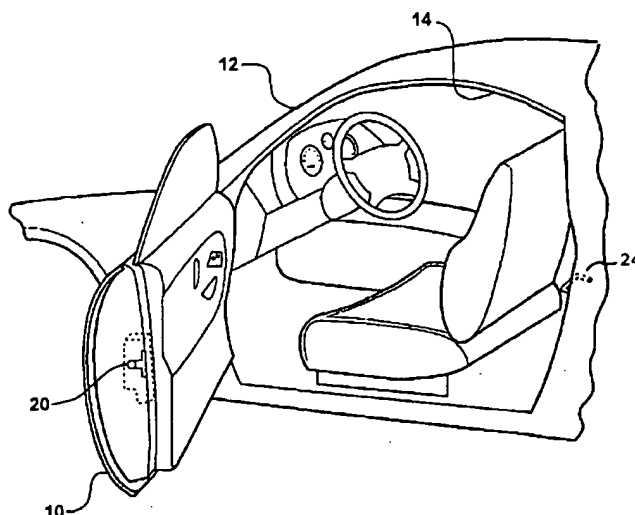
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(54) Title: INERTIA CATCH FOR A VEHICLE LATCH



(57) Abstract: A latch mechanism (20) for selectively latching a door (10) to an automotive vehicle. The latch mechanism includes a latch hook (22) movable between locked and unlocked positions relative to a striker bar (24) fixedly secured to the vehicle. A release lever (30) is operatively coupled between the latch hook (22) and the latch mechanism for selectively actuating the latch hook between the locked and unlocked positions. An inertia lever (50) is engagable with the release lever (30) to prevent movement of the latch hook (22) between the unlocked and locked positions. The inertia lever (50) is movably coupled to the latch mechanism for movement in and out of engagement with the release lever (30) in response to a threshold acceleration of the vehicle. A slot (42) is formed in the release lever (30) presenting sides (44, 46) engagable with the inertia lever (50) to automatically rock the inertia lever in response to movement of the release lever (30) to prevent seizing of the inertia lever within the latch mechanism due to lack of use.

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# INTERNATIONAL SEARCH REPORT

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PCT/CA 03/01167

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 E05B65/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 197 38 492 A (VOLKSWAGENWERK AG) 12 March 1998 (1998-03-12) column 3, line 47 -column 4, line 30 figures 1-3	1-6
X	US 3 583 741 A (GRABNER CHRISTIAN ET AL) 8 June 1971 (1971-06-08) column 2, line 70 -column 3, line 25 figures 5-7	1-6
X	DE 195 11 651 A (VOLKSWAGENWERK AG) 19 October 1995 (1995-10-19) column 2, line 25 - line 48 figures 1,2	1,3

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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on on patent family members

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